

CASTROL INCORPORATED
MATERIAL SAFETY DATA SHEET

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DATE PREPARED/REVISED: 12/12/88

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PRODUCT NAME: BRAYCO MICRONIC 882
COMMON NAME: FIRE RESISTANT HYDRAULIC FLUID
CHEMICAL FAMILY OR CLASSIFICATION: SYNTHETIC HYDROCARBON MIXTURE

NFPA HAZARD CLASSIFICATION:

HEALTH: 1
FLAMMABILITY: 1
REACTIVITY: 0

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SECTION 1 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS

Chemical Identity/Common Name	TLV/other	CAS#	%
TRIPHENYL PHOSPHATE	3 mg/M3	115-86-6	<0.3

NOTE:

PRODUCT CONTAINS NO MATERIALS CURRENTLY CLASSIFIED AS CARCINOGENIC BY
NTP, IARC, OR OSHA.

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: >500 F SPECIFIC GRAVITY(H2O=1): 0.86
VAPOR PRESSURE:ND VAPOR DENSITY: NA
PERCENT VOLATILES: NA EVAPORATION RATE (ETHER=1): ND
SOLUBILITY IN WATER: SLIGHT
APPEARANCE AND ODOR: BRIGHT RED FLUID; MILD PETROLEUM ODOR.
HAZARDOUS POLYMERIZATIONS (WILL/WILL NOT OCCUR): WILL NOT OCCUR

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 430 F (COC)
FLAMMABLE LIMITS IN AIR, % VOL.: UP.- ND LOW.- ND
EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM, WATER
SPECIAL FIRE FIGHTING PROCEDURES/ UNUSUAL FIRE AND EXPLOSION HAZARDS:
WATER OR FOAM MAY CAUSE FROTHING IF PRODUCT IS HEATED ABOVE 93 C.
USE WATER TO COOL FIRE EXPOSED CONTAINERS.
PRODUCT IS COMBUSTIBLE AT HIGH TEMPERATURES; SLIGHT FIRE/EXPLOSION
HAZARD WHEN EXPOSED TO HEAT OR FLAME.

EMPTY CONTAINERS MAY RETAIN PRODUCT RESIDUE OR VAPORS; DO NOT CUT
DRILL, OR WELD ON OR NEAR FULL OR EMPTY CONTAINERS.

SECTION 4 - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS AND MATERIALS TO AVOID:
MAY REACT WITH STRONG OXYDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:
IRRITATING OR TOXIC FUMES; CARBON MONOXIDE AND DIOXIDE.

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SECTION 5 - HEALTH HAZARD DATA

OCCUPATIONAL EXPOSURE LIMITS (TLV):NONE ESTABLISHED; USE 5mg/M3.

PRIMARY ROUTE(S) OF ENTRY:

SKIN, INHALATION

HEALTH HAZARDS (Acute and Chronic, If Applicable)

MAY CAUSE MILD EYE IRRITATION. REPEATED OR PROLONGED CONTACT WITH SKIN MAY CAUSE IRRITATION; NOT EXPECTED TO BE A SENSITIZER. VAPORS RELEASED AT HIGH TEMPERATURES MAY CAUSE IRRITATION OF RESPIRATORY TRACT.

-THIS PRODUCT CONTAINS TRI-PHENYL PHOSPHATE WHICH HAS BEEN REPORTED TO CAUSE CHOLINESTERASE INHIBITION IN HUMANS.

SIGNS/SYMPTOMS OF EXPOSURE:

EYE IRRITATION, SKIN IRRITATION

MEDICAL CONDITIONS GENERALLY AGGREGATED BY EXPOSURE: NONE KNOWN

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MIN.
CONTACT A PHYSICIAN IF IRRITATION PERSISTS.

SKIN: REMOVE CONTAMINATED CLOTHING. WIPE MATERIAL FROM SKIN. WASH WITH SOAP AND WATER.

INHALATION: REMOVE FROM EXPOSURE.

INGESTION: DO NOT INDUCE VOMITING; ASPIRATION HAZARD.
CONSULT A PHYSICIAN.

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SECTION 6 - CONTROL MEASURES

RESPIRATORY PROTECTION: CHEMICAL CARTRIDGE RESPIRATOR OR SUPPLIED AIR RESPIRATORY EQUIPMENT AS REQUIRED FOR CONCENTRATIONS EXCEEDING TLV.

VENTILATION: NOT NORMALLY REQUIRED. LOCAL EXHAUST, IN ADDITION TO GENERAL VENTILATION WHEN TLV IS EXCEEDED IS RECOMMENDED.

SKIN PROTECTION: POLYVINYL ALCOHOL, POLYETHYLENE, NEOPRENE GLOVES. IMPERVIOUS GARMENT AS REQUIRED.

EYE PROTECTION: SAFETY GLASSES, CHEMICAL SPLASH GOGGLES.

WORK/HYGIENIC PRACTICES: DO NOT WEAR CONTAMINATED CLOTHING. LAUNDRER BEFORE RE-USE OR DISCARD.

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SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

HANDLING & STORAGE INSTRUCTIONS: AVOID PROLONGED OR REPEATED BREATHING OF VAPORS, MISTS, FUMES. KEEP CONTAINERS TIGHTLY CLOSED. DO NOT STORE NEAR HEAT, FLAME, STRONG OXIDANTS. MAINTAIN ADEQUATE VENTILATION.

SPILL/LEAK PROCEDURES: DO NOT PERMIT PRODUCT TO ENTER STREAMS, SEWERS OR OTHER WATERWAYS. DIKE SPILL AND ELIMINATE LEAK. ABSORB WITH INERT MATERIAL AND STORE IN CLOSED CONTAINERS UNTIL DISPOSAL.

WASTE DISPOSAL METHOD: ALL RECOVERED MATERIAL SHOULD BE PACKAGED, LABELLED, TRANSPORTED, AND DISPOSED OF OR RECLAIMED IN CONFORMANCE WITH GOOD ENGINEERING PRACTICES. DISPOSE OF BY METHOD IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING HEALTH, AIR, WATER POLLUTION.

OTHER: NA

SECTION 8 - ADDITIONAL COMMENTS

CERCLA REPORTABLE QUANTITY: NA

RCRA HAZARDOUS WASTE NUMBER: NA

DOT HAZARD CLASSIFICATION: NONE

DOT ID NUMBER (UN NUMBER): NONE

SARA TITLE III, SECTION 302: NO EXTREMELY HAZARDOUS SUBSTANCES.

SECTION 311/312 HAZARD CATEGORY: NA

SECTION 313 CHEMICAL/CATEGORY: NA

NA=NOT APPLICABLE

ND=NO DATA AVAILABLE

NOTICE:

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